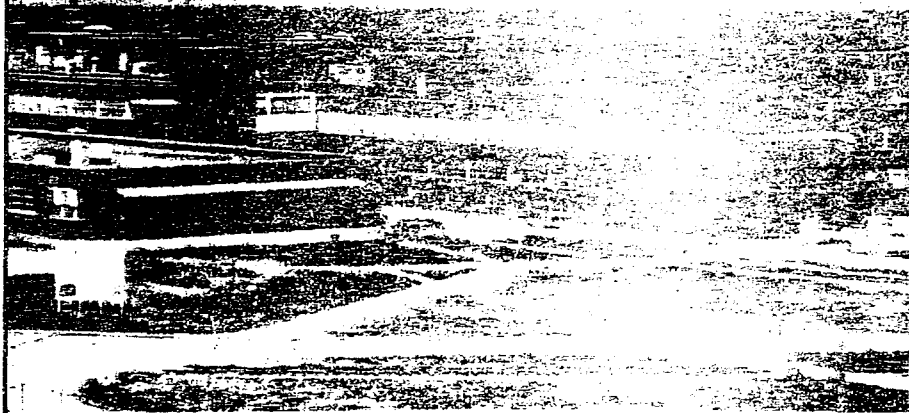


*2nd Edition*  
FOR PROPOSALS

U. S. ARMY

# INDUSTRIAL INSTALLATIONS

Site: St. Louis Ordnance Plant  
ID: MO82100224645  
Break: 11.11



2025221

A V A I L A B L E F O R  
L E A S E

U. S. ARMY ENGINEER DIVISION, MISSOURI RIVER  
CORPS OF ENGINEERS  
OMAHA, NEBRASKA

## T A B L E O F C O N T E N T S

|  | <u>PAGE</u>        |
|--|--------------------|
| Vicinity Map . . . . .                     | Inside Front Cover |
| St. Louis Ordnance Plant . . . . .         | 1-13               |
| St. Louis Ordnance Steel Foundry . . . . . | 13-17              |
| Sunflower Ordnance Works . . . . .         | 17-25              |
| Lake City Arsenal . . . . .                | 25-27              |
| Kansas Ordnance Plant . . . . .            | 27-35              |
| Nebraska Ordnance Plant . . . . .          | 35-41              |
| Cornhusker Ordnance Plant . . . . .        | 41-49              |
| Iowa Ordnance Plant . . . . .              | 49-55              |
| Rocky Mountain Arsenal . . . . .           | 55-61              |
| Terms and Conditions of Lease . . . . .    | 61                 |
| General Information . . . . .              | 61-62              |
| Sample Lease Form . . . . .                | I-V                |
| Proposal, in Quadruplicate (Attached)      |                    |
| Utilization Index . . . . .                | Inside Back Cover  |

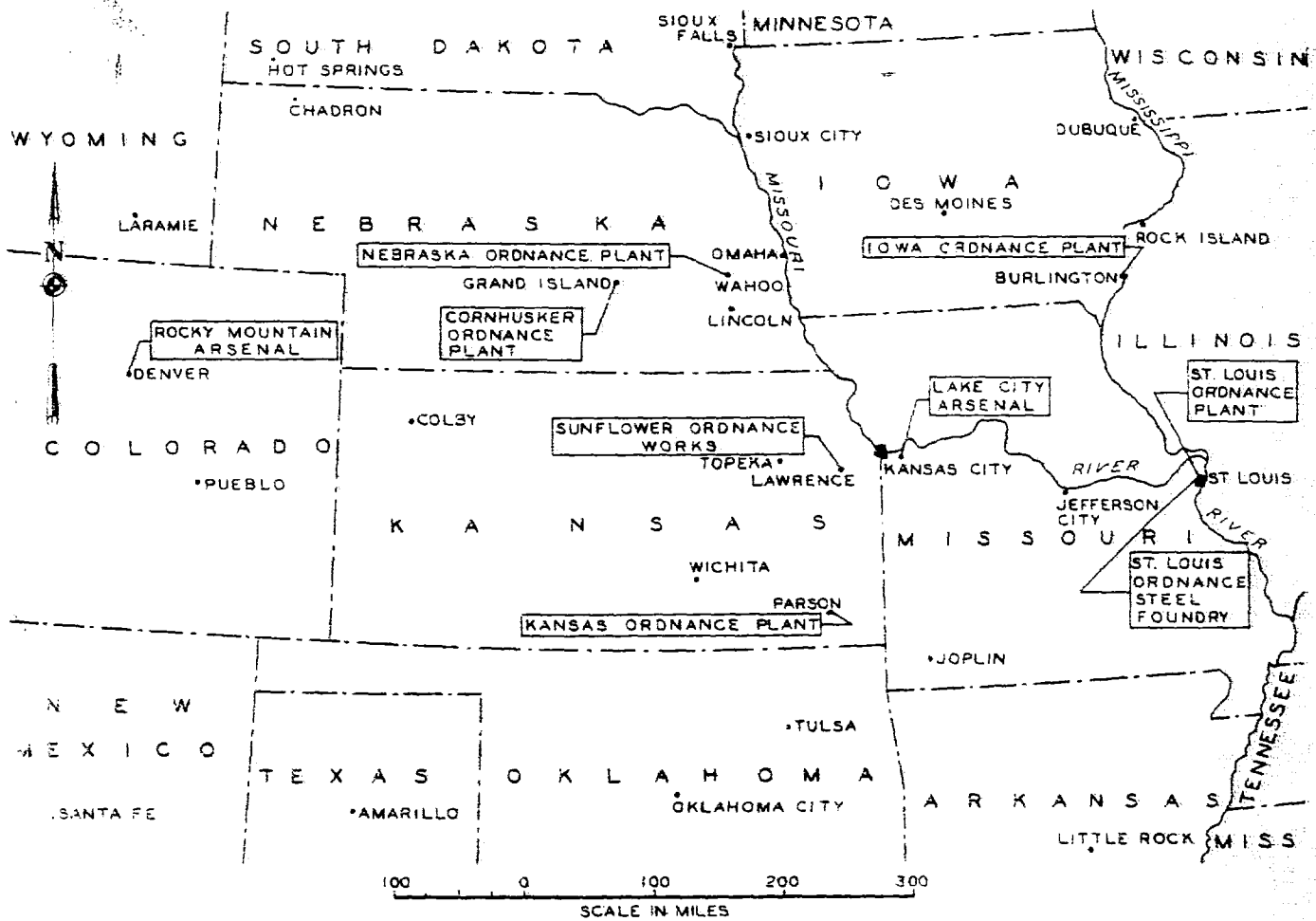
United States Senate

### MEMORANDUM

Virginia:

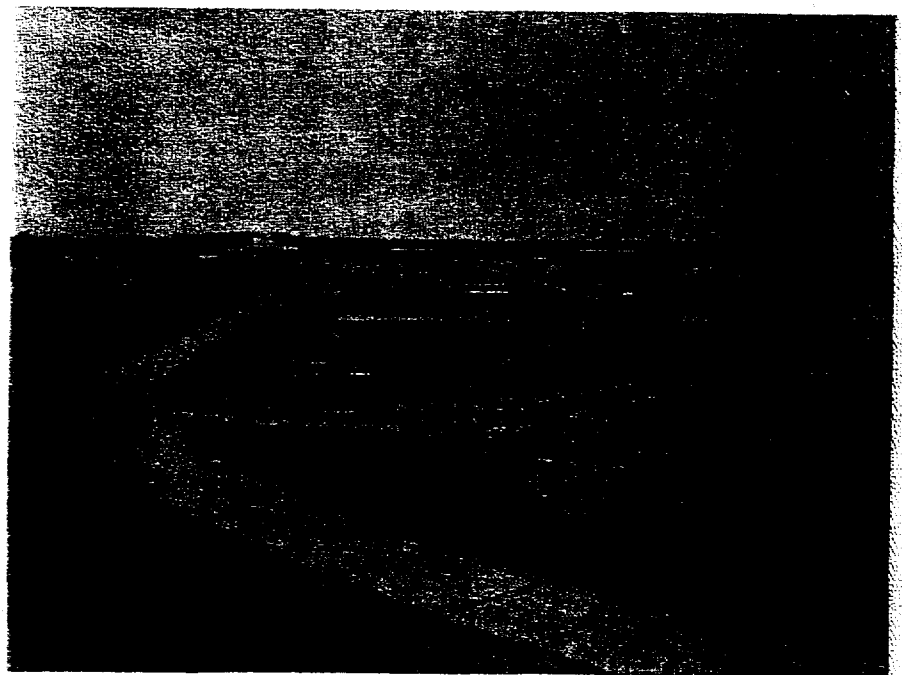
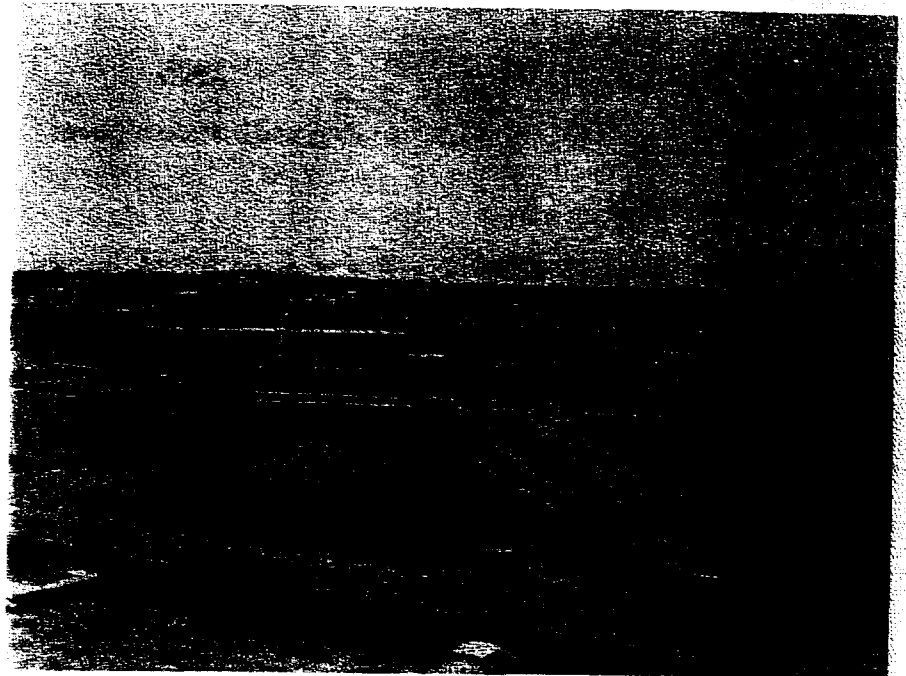
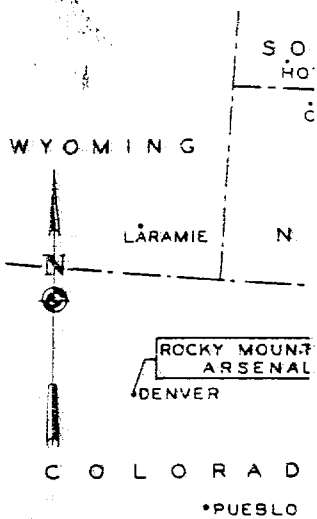
Received 5 of these. Mr. Fike said send 3 to Washington and 2 to K.C.

# LOCATION MAP



# ST. LOUIS ORDNANCE PLANT

## General Area View



U. S. ARMY ENGINEER DISTRICT, KANSAS CITY  
CORPS OF ENGINEERS  
1800 FEDERAL OFFICE BUILDING  
KANSAS CITY 6, MISSOURI

IN REPLY REFER TO

MRKRM 680.41(Industrial  
Leasing Program - 1958)

29 September 1958

Honorable W. Stuart Symington  
United States Senator  
Creve Coeur, Missouri

Dear Senator Symington:

I have mailed you, under separate cover, five copies of Invitation for Proposals, U. S. Army Industrial Installations, pertaining to the St. Louis Ordnance Plant, the St. Louis Ordnance Steel Foundry, and the Lake City Arsenal, for such distribution as you may find convenient. This brochure has been prepared with the intent of obtaining from private industry desirable tenants for inactive Army industrial property.

This action is a direct result of a decision approved by the Armed Services Committees of the Senate and House for a nationwide industrial leasing program involving facilities at some thirty-nine Army installations, nine of which are located within the Missouri River Division, and are, therefore, the topic of the brochure. In this respect, the invitations emanating from each Division Office have been so co-ordinated as to develop a uniform presentation.

In offering the many excellent properties listed for lease to business interests, it is believed a program has been initiated which will result in substantial savings to the Government through elimination of maintenance costs of the facilities. Many fringe benefits may be expected to accrue to the surrounding communities in increased employment. The resultant general business stimulus is another prime consideration in the development of a successful outleasing program.

Data relevant to the St. Louis Ordnance Plant, the St. Louis Ordnance Steel Foundry, and the Lake City Arsenal may be found on pages 1 through 12, pages 13 through 16, and pages 25 and 26, respectively. Terms and conditions of lease and other explanatory material are inserted near the back of the brochure, beginning with page 61.

It is sincerely hoped you find this brochure informative and consistent with the best interests of the Government. I stand ready to furnish additional copies of the brochure and other information as you may require.

Sincerely yours,

*L. E. Laurion*  
L. E. LAURION  
Colonel, Corps of Engineers  
District Engineer

1 Incl  
Invit (in quin)  
(Under sep cover)

MEMPH 686-41 (Industrial  
Leasing Program - 1953)

29 September 1953

Honorable W. Stuart Springston  
United States Senator  
Creve Coeur, Missouri

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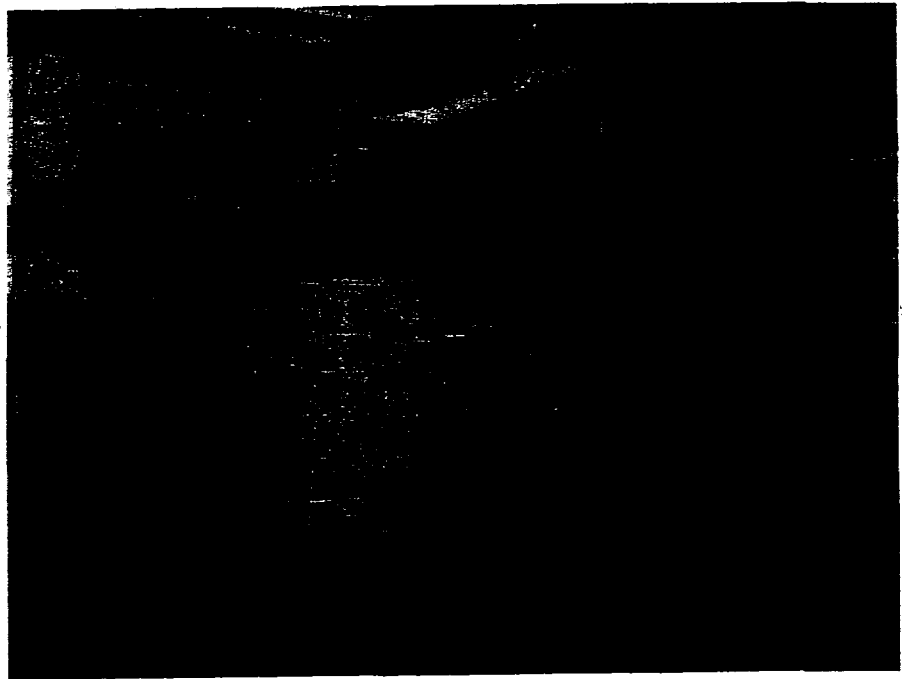
Sincerely yours,

I Incl  
Inclt (in quin)  
(Under sep cover)

L. E. RICHARDS  
Colonel, Corps of Engineers  
District Engineer

# ST. LOUIS ORDNANCE PLANT

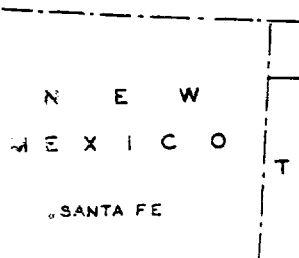
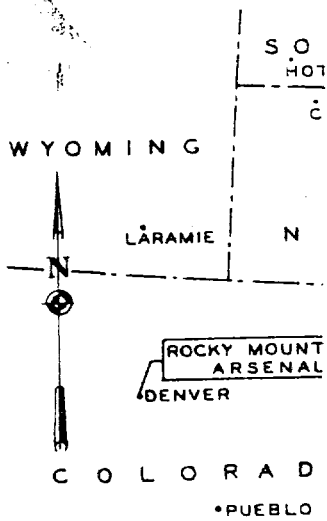
## Metal Fabrication



Annealing Equipment



Trimming Machines



| LINE NO. | NO. OF BLDGS. | DESIGNATION        |
|----------|---------------|--------------------|
| 1        | 1             | Machine Building   |
| 1        | 1             | Heat Treating      |
| 1        | 1             | Warehouse          |
| 6        | 1             | Production Support |

**FLOOR SPACE  
SQUARE FEET**

**REMARKS**

173,400  
30,900  
45,800  
100 - 3,000

Buildings and machines are preserved in excellent condition by industrial maintenance program.

(b) Construction: Machine building has steel framework, masonry walls, and concrete floors and roof. Heat treating building and warehouse have steel frames, concrete floors, and asbestos siding and roofs. Support buildings are of permanent-type construction.

(c) Equipment: Equipment consists of 382 each, 9/16 National Acme automatic screw machines; 44 each, #2 Cincinnati centerless grinders; Lindberg atmospherically controlled inert gas heat treating furnaces; 2,000 gallon quenching tanks; Barnett centrifugal extractors; milling machines; lathes; grinders; etc. Overhead crane feeds steel stock to the bank of 382 screw machines. Work stations are integrated by conveyer system. Subfloor conveyer collects scrap and turnings for direct delivery to treating unit and rail car.

(d) Potential Use: It is suggested that the existing facilities may be converted for large scale production of metal parts or components adaptive to the above-listed metal working machines. Retooling of machines is permissible insofar as the original production capability of the machines is not impaired.

**(4) Ammunition Manufacturing - Projectile Manufacturing Group:**

(a) Description: The facilities offered for lease include land, buildings, and essential equipment for the forging and machining of artillery projectiles. Item produced is approximately 4.13 inches in diameter, 15.74 inches in length, and weighs approximately 26 pounds. Office space, locker rooms, rest rooms, a cafeteria, tool and gauge shop, maintenance shop, quality control laboratory, and extensive receiving and shipping bays with contiguous rail and truck docks furnish support for the production facilities.

| LINE NO.   | NO. OF BLDGS. | DESIGNATION           | FLOOR SPACE SQUARE FEET | NO. OF FLOORS | REMARKS  |
|------------|---------------|-----------------------|-------------------------|---------------|--|
| Proj. Area | 1             | Nick & Break Building | 8,700                   | 1             | Furnaces are gas-fired in summer; oil-fired in winter. |
|            | 1             | Forge Building        | 73,100                  | 1             | Area has oil storage tank                              |
|            | 1             | Machine Building      | 321,900                 | 2             | farm and steel billet yard.                            |
|            | 1             | Office Building       | 21,400                  | 2             |  |
|            | 1             | Laboratory            | 20,400                  | 2             |  |
|            | 1             | Compressor House      | 9,000                   | 1             | 5 large air compressors.                               |
|            | 15            | Production Support    | 100 - 1,000             | 1             | No equipment.  |

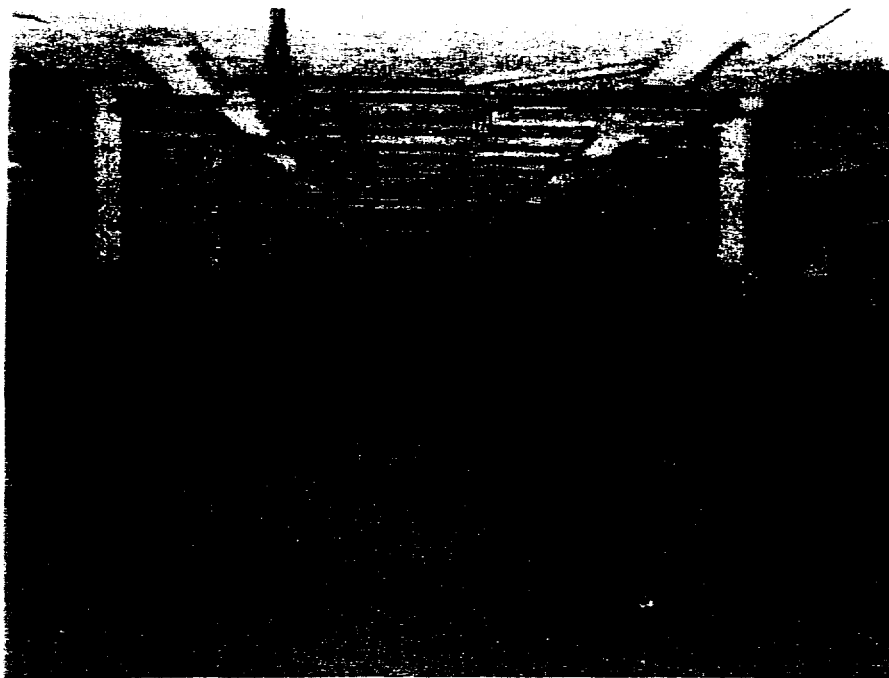
(b) Construction: The nick and break building, forge building, and compressor house have concrete floors and steel frames covered by transite siding and roofing. Machine building, office, laboratory, and major support buildings have steel frames, masonry walls, and concrete floors and roofs.

(c) Equipment: Equipment consists of "nicking table", break presses, furnaces, piercing presses, draw benches, centering machines, rough turn lathes, cold nose presses, heat treating equipment, quenching tanks, shot blast machines, threading machines, centerless grinders, laboratory and testing equipment, and numerous materials handling systems. In the two-story building, the material flow is integrated by overhead and belt conveyers connecting first and second floor, as well as lateral work stations.

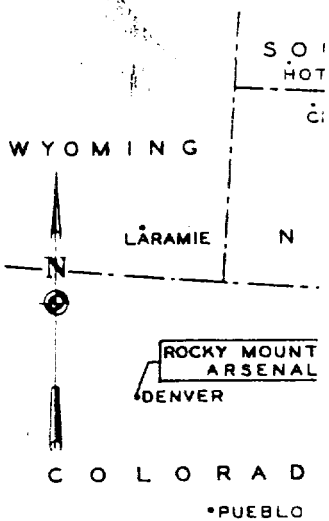
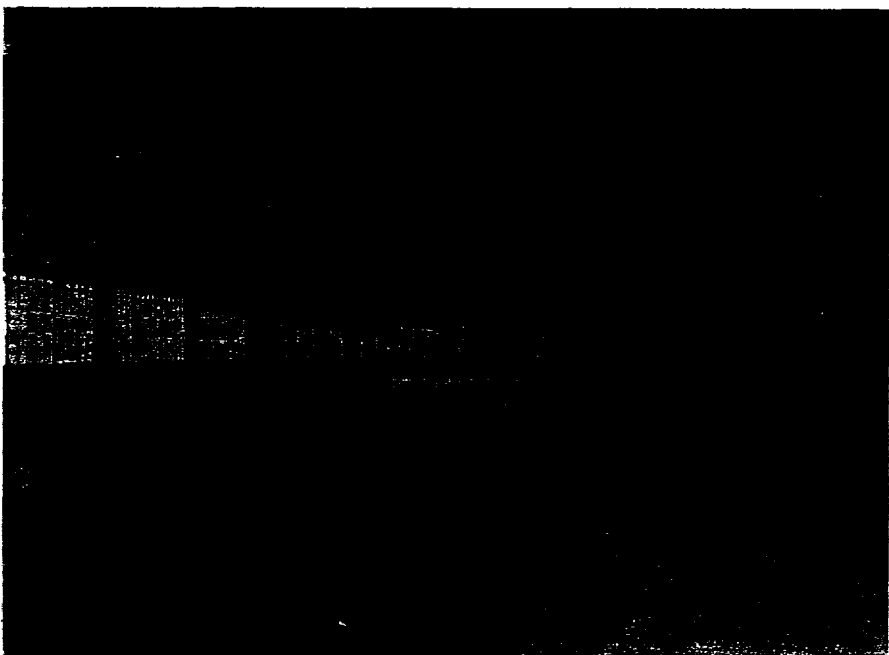
(d) Potential Use: Conversion of existing facilities for mass production of ferrous metal parts of comparable weight and size is believed to be economically feasible. Retooling or adaptation of machines is permissible insofar as the ammunition production capability of the equipment is not impaired.



# ST. LOUIS ORDNANCE PLANT



Vacant Manufacturing-Type Buildings



(5) Vacant Manufacturing-Type Buildings:

(a) Description: The facilities offered for lease include two separate production lines, complete with land, buildings, and installed equipment only. Production machines and extraneous equipment have been removed. Major buildings have adequate office space, cafeteria, locker room, and rest room facilities. Extensive rail sidings and truck docks serve the area.

| LINE NO. | NO. OF BLDGS. | ORIGINAL DESIGNATION   | FLOOR SPACE SQUARE FEET | NO. OF FLOORS | REMARKS  |
|----------|---------------|------------------------|-------------------------|---------------|--|
| 203      | 1             | Manufacturing Building | 314,000                 | 2             | Buildings and installed property are preserved in excellent condition. |
|          | 1             | Manufacturing Building | 22,300                  | 2             |  |
|          | 1             | Manufacturing Building | 20,400                  | 2             |  |
|          | 5             | Support Buildings      | 100 - 700               | 1             |  |
| 204      | 1             | Manufacturing Building | 421,000                 | 2             | Reactivation would require minimum outlay of funds.                    |
|          | 1             | Manufacturing Building | 32,700                  | 2             |  |
|          | 1             | Manufacturing Building | 31,700                  | 2             |  |
|          | 7             | Support Buildings      | 100 - 2,000             | 1             |  |

(b) Construction: The major buildings have steel and reinforced concrete frames, brick walls, and concrete floors and roofs. In general, floor loads are rated 300 to 500 pounds per square foot at ground level. Second floors are concrete, supported by steel columns on 20-foot centers, for a rated 300 pounds per square foot.

(c) Equipment: Heating, lighting, plumbing equipment, overhead sprinkler system, freight elevators, and similar facilities are installed in place.

(d) Potential Use: It is suggested that existing facilities may be utilized for manufacturing and general assembly purposes, as well as large scale commercial warehousing operations.

(6) Operational Support - Tool and Gauge Shop:

(a) Description: Offered for lease is an exceptionally large and complete machine shop, equipped for diversified manufacture of tooling and the repair and overhaul of a wide variety of industrial machines. A cafeteria, office space, rest rooms, locker rooms, storerooms, etc., are strategically located throughout the building. Rail siding, with car-level docks, extends within the building, serving the warehouse area and heavy machine repair bay.

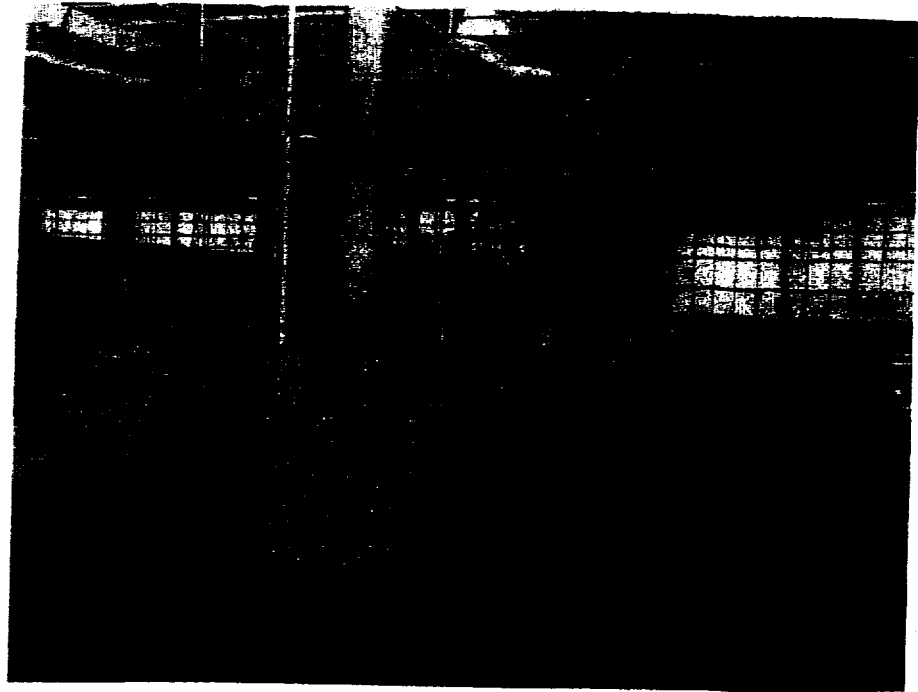
| BLDG. NO. | DESIGNATION         | FLOOR SPACE SQUARE FEET | REMARKS                        |
|-----------|---------------------|-------------------------|--------------------------------|
| 110       | Tool and Gauge Shop | 167,000                 | Two-story, with full basement. |

(b) Construction: The building is a two-story, reinforced concrete and brick structure, having a full basement. Warehouse area and heavy machine repair bay are roof height and are served by overhead traveling cranes.

(c) Equipment: The shop areas are fully equipped with numerous large, medium, and small lathes, planers, milling machines, screw machines, grinders, hydraulic presses, drill presses, cutters, etc. A complete heat treating and plating shop and a humidity controlled gauge laboratory are an incorporated part of the facilities.

(d) Potential Use: It is suggested that this property may be utilized for production of industrial tooling and large scale job shop operations.

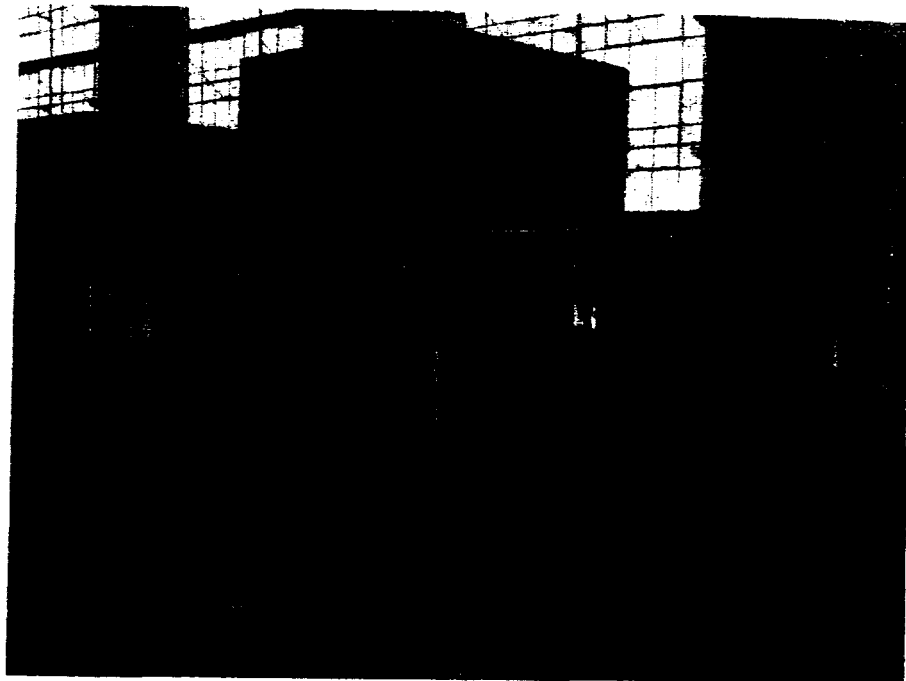
# ST. LOUIS ORDNANCE PLANT



IMING  
LARAMIE N  
S O I  
HOT  
CI

ROCKY MOUNT  
ARSENAL  
DENVER

Tool and Gauge Shop Equipment



O L O R A D  
•PUEBLO

E W  
X I C O  
T  
SANTA FE

Operational Support - Miscellaneous Buildings:

(a) Description: The facilities offered for lease consist of a number of miscellaneous buildings which furnish operational support to production areas in the form of a steam plant, interim storage structures, and proving areas for test firing of ammunition.

| NO. OF<br>BLDG. | DESIGNATION      | CONSTRUCTION           | FLOOR SPACE<br>SQUARE FEET | REMARKS  |
|-----------------|------------------|------------------------|----------------------------|--|
| 1               | Proof House      | Concrete & Masonry     | 82,200                     | Location - Area 3  |
| 15              | Miscellaneous    | Concrete & Masonry     | 500 - 2,500                | Location - Area 3  |
| 1               | Proof House      | Asbestos Siding & Roof | 18,700                     | Location - Area 4  |
| 3               | Powder Magazines | Unglazed Tile          | 2,400                      | Location - Area 4  |
| 3               | Powder Magazines | Unglazed Tile          | 2,400                      | Location - Area 5  |
| 3               | Miscellaneous    | Brick & Concrete       | 125 - 500                  | Location - Area 5  |
| 1               | Boiler Plant     | Concrete & Masonry     | 25,000                     | Location - Area 4<br>(Two 60,000-pounds per<br>hour boilers) |

(b) Potential Use: Although originally designed to furnish support for ammunition manufacturing activities, it is believed the above-described facilities have utility for operations requiring either limited floor space or structure of this particular design.

(8) Tyson Area - Detached Storage Facility - St. Louis Ordnance Plant:

(a) Description: Tyson Area is located 25 miles southwest of the Ammunition Plant proper on U. S. Highway 66. The facility consists of warehouses and magazines dispersed throughout an area of 2,373 acres, and is utilized for storage of inert materials and explosives. Various firing ranges and similar structures are located within the area for the proof testing of ammunition and components thereof. The area is served by rail and highway transport trucks.

| BLDG.<br>NO. | DESCRIPTION | CONSTRUCTION                 | FLOOR SPACE<br>SQUARE FEET | REMARKS   |
|--------------|-------------|------------------------------|----------------------------|---|
| 360-1        | Warehouse   | Steel frame, transite        | 60,000                     | Contiguous rail sidings &<br>docks entire length of<br>buildings.               |
| 360-2        | Warehouse   | siding, concrete floors      | 60,000                     |   |
| 301-1        | Warehouse   | Concrete frame, brick walls, | 5,000                      | Contiguous truck docks<br>entire length of build-<br>ings, central rail siding. |
| 301-2        | Warehouse   | concrete floors and roofs    | 5,000                      |   |
| 301-3        | Warehouse   |                              | 5,000                      |   |

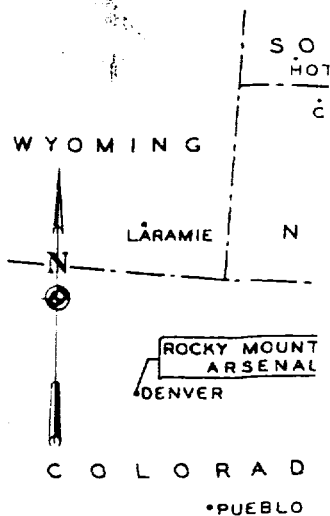
(b) Potential Use: The buildings offered are suitable for storage of items that do not require heated warehouses.

(9) Location: The St. Louis Ordnance Plant, consisting of 276 acres, is located in the northwestern portion of the City of St. Louis and extends into St. Louis County. The north and west boundaries adjoin residential property, while the east and south perimeters are adjacent to commercial and industrial areas. The plant is easily accessible from U. S. Highways 40, 61, 66, and 67.

(10) Transportation: Switching service over plant-owned trackage is furnished by The Terminal Railway Association of St. Louis, with connections to 18 trunk lines serving the city. All-weather plant roads offer access to over 30 interstate truck lines. Water transportation for the Greater St. Louis Area is supplied by the Mississippi Inland Waterway System, connecting Minneapolis, Pittsburgh, Chicago, Knoxville, New Orleans, etc. Common carriers are the Federal Barge Lines and the Mississippi Valley Barge Lines.

(11) Utilities: Services may be procured as follows: Electricity, Union Electric Company of Missouri; water, City of St. Louis; and disposal, Metropolitan Sewer District of St. Louis.

ST. LOUIS ORDNANCE PLANT  
Tyson Area - Detached Storage Facilities



Typical Warehouse - 360 Series



Interior View - 360 Series

(12) Labor: Surplus labor market exists in all classes of skilled, semiskilled, and unskilled employees in the Greater St. Louis Area.

(13) Reactivation: Reactivation of facilities may be accomplished with a minimum expenditure of time and funds, as machines and buildings are preserved in excellent condition by an industrial surveillance and maintenance program.

(14) Additional Information: Detailed data relevant to buildings and equipment will be furnished commensurate with the degree of interest evidenced by the prospective bidder.

(15) Inspection of Property: Prospective bidders are urged to inspect the facilities and to form their own conclusions. Arrangements for such inspection must be made through the Office of the District Engineer, U. S. Army Engineer District, Kansas City, Corps of Engineers, 1800 Federal Office Building, Kansas City 6, Missouri.

(16) Proposals: Sealed proposals for the lease of the facilities included in this paragraph 1a will be received by the District Engineer, U. S. Army Engineer District, Kansas City, Corps of Engineers, 1800 Federal Office Building, Kansas City 6, Missouri, until 21 January 1959, and then publicly opened. Each proposal must be inclosed in a sealed envelope, marked and addressed as follows:

Proposal for lease of:  
St. Louis Ordnance Plant, Missouri

TO: District Engineer  
U. S. Army Engineer District, Kansas City  
Corps of Engineers  
1800 Federal Office Building  
Kansas City 6, Missouri

INVITATION NO. ENG-23-028-59-12  
To Be Opened: 10:00 a. m., c. s. t.  
Date: 21 January 1959

Telephone: BA 1-7000, Ext. 8-319

Proposals will be considered on all or any portion of the facilities listed. The offeror may submit as many alternate proposals as he desires.

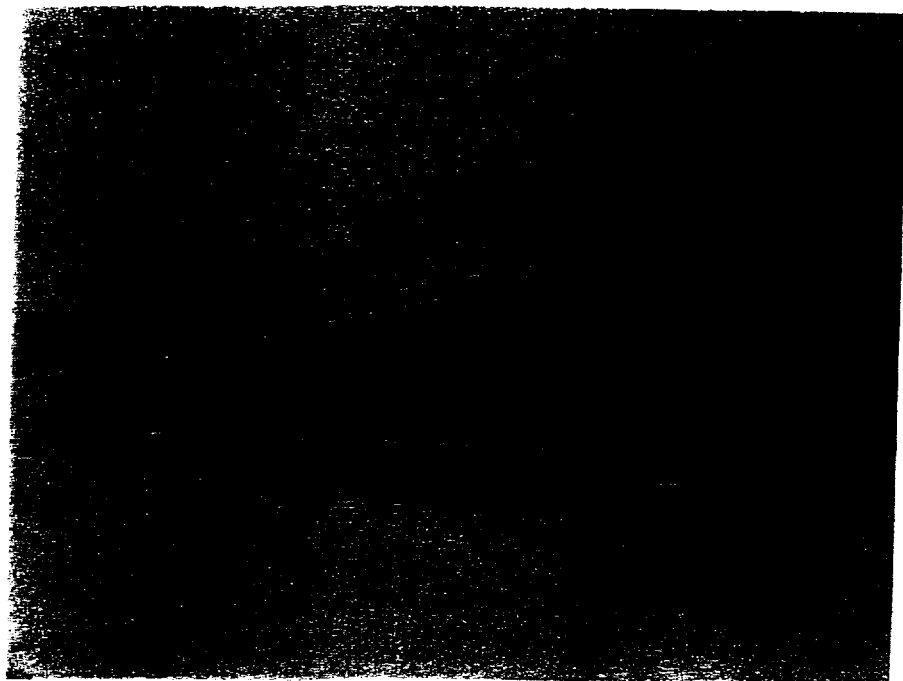
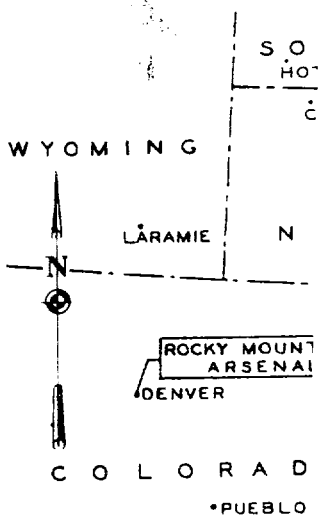
#### ST. LOUIS ORDNANCE PLANT

#### Tyson Area - Detached Storage Facilities

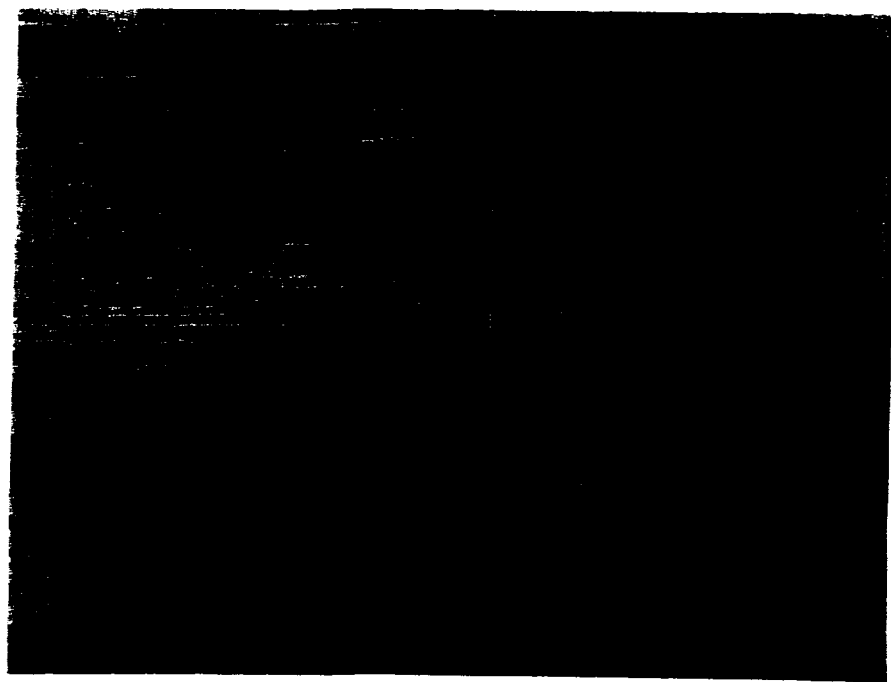


Typical Warehouse - 301 Series

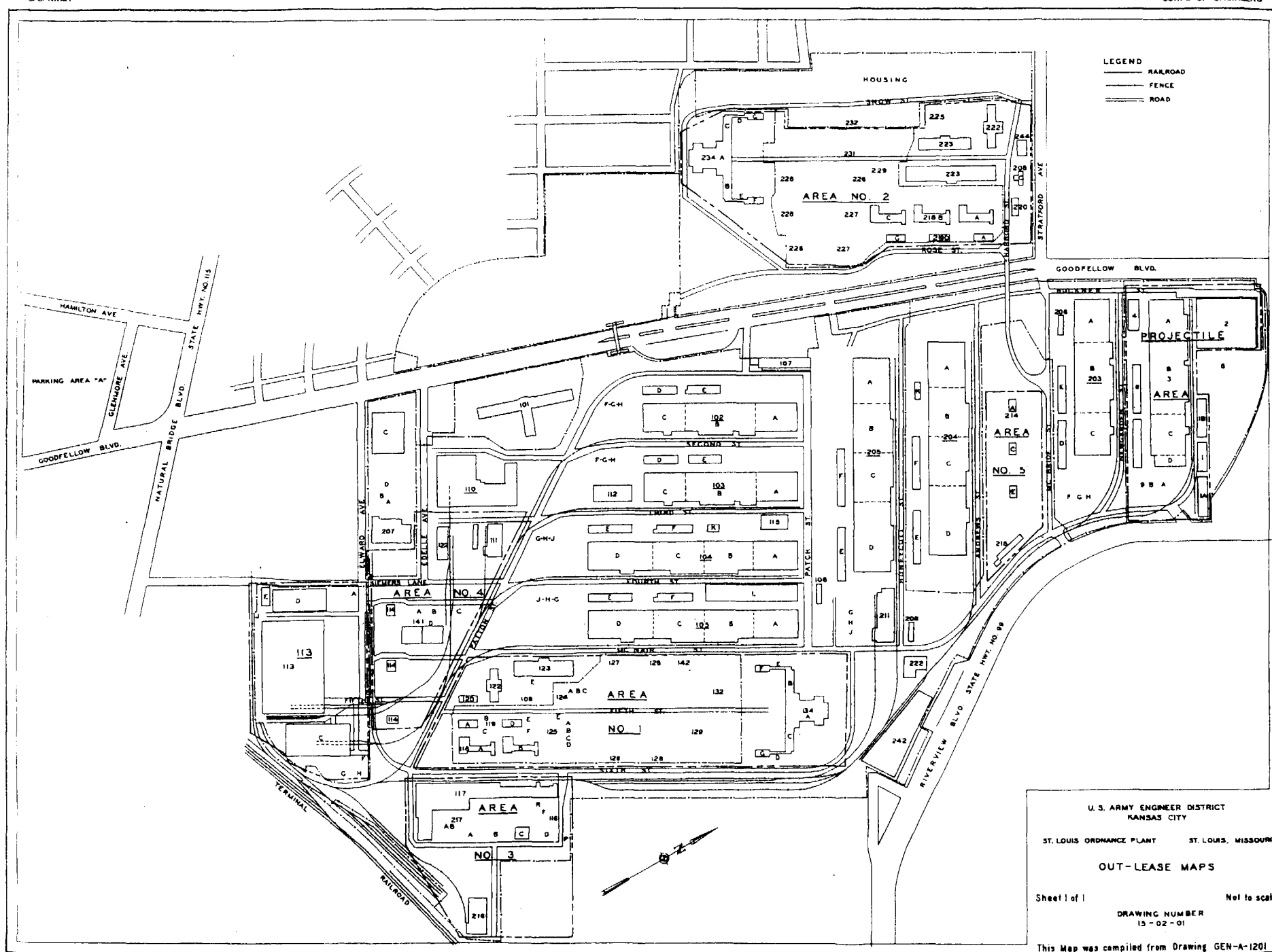
ST. LOUIS ORDNANCE PLANT



Typical Structure - Manufacturing Buildings

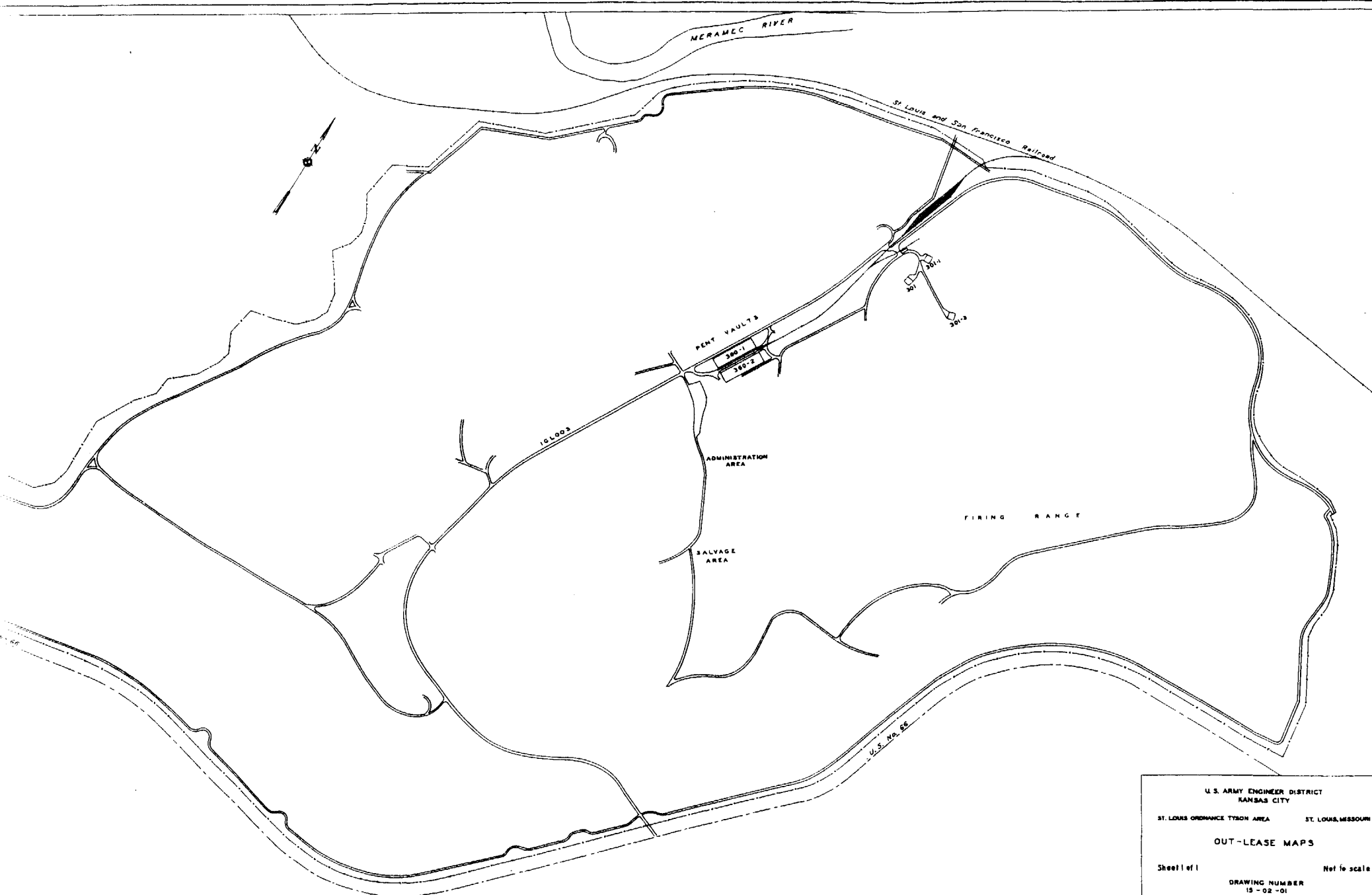


Typical Cafeteria - Manufacturing Buildings





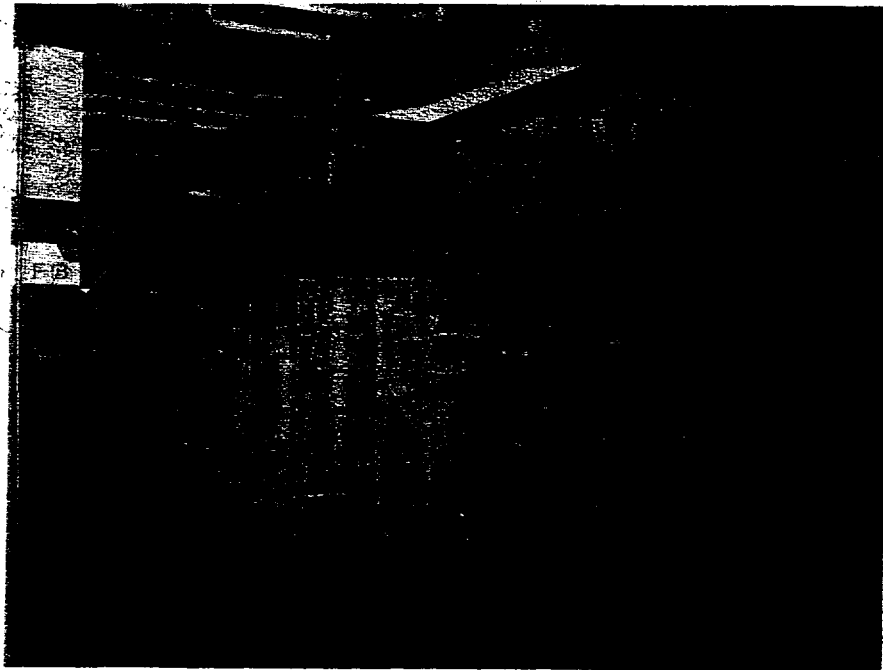
CORPS OF ENGINEERS



U.S. ARMY ENGINEER DISTRICT  
KANSAS CITY  
ST. LOUIS ORDNANCE TYGON AREA ST. LOUIS, MISSOURI  
OUT-LEASE MAPS  
Sheet 1 of 1 Not to scale  
DRAWING NUMBER  
15-02-01  
This Map was compiled from Drawing GEN-A-1301

# ST. LOUIS ORDNANCE PLANT

## Metal Fabrication

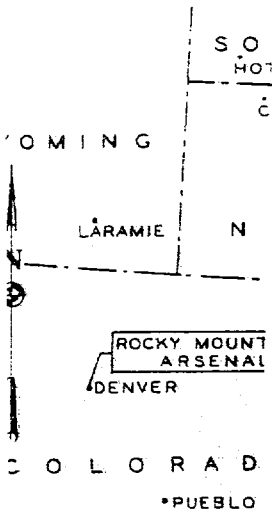


Annealing Equipment



Trimming Machines

ST. LOUIS ORDNANCE PLANT  
 METAL FABRICATION  
 ANNEALING EQUIPMENT  
 TRIMMING MACHINES



(d) Potential Use: Conversion of existing facilities for the fabrication of small metal parts and assembly of multiple component items is believed to be economically feasible. Retooling or adaptation of machines is permissible insofar as the ammunition production capability of the equipment is not impaired.

(2) Ammunition Manufacturing - Primer and Chemical Bullet Group:

(a) Description: The facilities offered for lease are maintained in excellent condition, and include two separate areas complete with land, buildings, and equipment essential for compounding and inserting of incendiary mixtures into bullet cavities, the preparation of the chemical charge, and the assembly of small percussion primers. Each production area is inclosed by a climb-proof, cyclone-type fence, further complemented by offices, locker rooms, rest rooms, a cafeteria, tool and gauge laboratory, and maintenance shops. Due to the small size of the items produced, receiving and shipping operations are adequately serviced by truck transport.

| AREA NO. | NO. OF BLDGS. | DESIGNATION                | FLOOR SPACE SQUARE FEET | REMARKS                              |
|----------|---------------|----------------------------|-------------------------|--------------------------------------|
| 1        | 1             | Primer Manufacturing       | 47,800                  | Temperature and humidity controlled. |
|          | 1             | Tracer Charge Building     | 29,700                  | Temperature and humidity controlled. |
|          | 2             | Chemical Mix Buildings     | 13,500 each             | Explosion wall partitions.           |
|          | 1             | Cafeteria and Locker Rooms | 13,140                  | Accommodate approx. 750 employees.   |
|          | 1             | Laboratory Building        | 4,400                   | Completely equipped.                 |
|          | 2             | Chemical Warehouses        | 5,000 each              | Floor load, 350 pounds per sq. ft.   |
|          | 79            | Production Support         | 100 - 1,000             | No production equipment.             |
| 2        | 1             | Primer Manufacturing       | 48,500                  | Temperature and humidity controlled. |
|          | 1             | Tracer Charge Building     | 44,200                  | Temperature and humidity controlled. |
|          | 3             | Chemical Mix Buildings     | 12,800 each             | Explosive wall partitions.           |
|          | 1             | Incendiary Bullet Assembly | 17,200                  | Temperature and humidity controlled. |
|          | 1             | Cafeteria and Locker Rooms | 16,400                  | Accommodate approx. 1,000 employees. |
|          | 1             | Laboratory Building        | 7,000                   | Completely equipped.                 |
|          | 3             | Chemical Warehouses        | 4,000 each              | Floor load, 350 pounds per sq. ft.   |
|          | 95            | Production Support         | 100 - 1,000             | No production equipment.             |

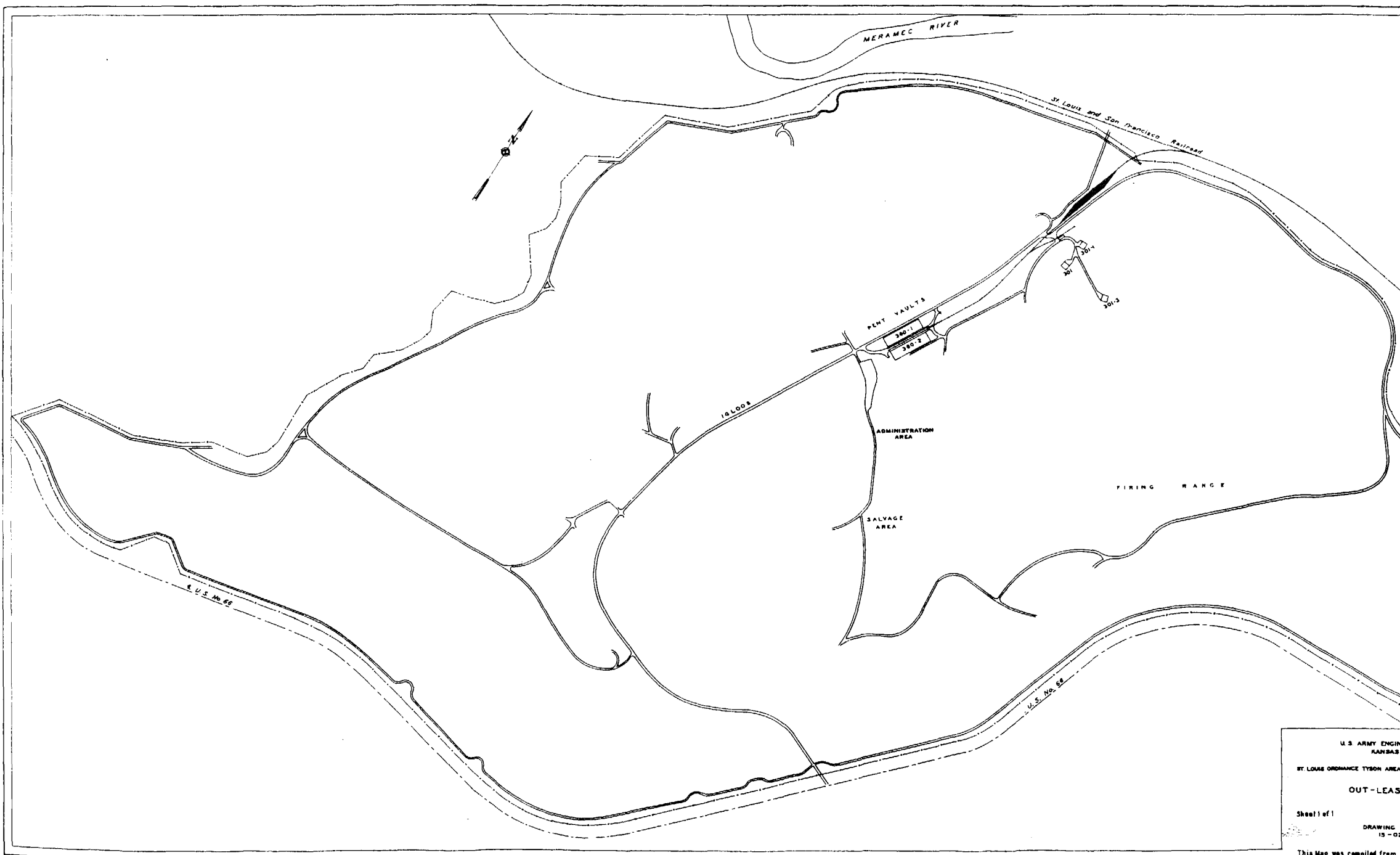
(b) Construction: The buildings are single story brick and reinforced concrete structures. Explosion walls and barricades are strategically located separating hazardous work stations, thus providing a high degree of operational safety.

(c) Equipment: Production equipment consists of light press and plate loading machines, insertion and crimping presses, chemical mixing and blending equipment, and instruments and apparatus for testing of metals, liquids, and chemicals. Area No. 1 is equipped with one 400-ton and one 600-ton absorption-type air conditioning units. Three 900-ton compressors provide a rated 2,700 tons of air conditioning in Area No. 2.

(d) Potential Use: It is suggested that the existing facilities may be converted for assembly of small multiple component items, research and development projects, and the manufacturing of pyrotechnics or other similar processes involving hazardous materials. Retooling or adaptation of machines is permissible insofar as the ammunition production capability of the equipment is not impaired.

(3) Ammunition Manufacturing - Steel Bullet Core Group:

(a) Description: The facilities offered for lease include land, buildings, and equipment essential for producing alloy-steel cores for jacketed 30 and 50 caliber bullets. The production line is inclosed by a climb-proof fence providing individual security protection. Adequate offices, lunch rooms, locker rooms, tool and gauge shop, maintenance shops, etc., are an incorporated part of the production facilities. Rail sidings extend within the machine building and warehouse with car-level loading docks.



U.S. ARMY ENGINEER  
KANSAS CITY  
ST. LOUIS ORDNANCE TYSON AREA  
OUT-LEASE  
Sheet 1 of 1  
DRAWING NUM  
15-02-0  
This Map was compiled from Draw

b. ST. LOUIS ORDNANCE STEEL FOUNDRY, 6703 Southwest Avenue, St. Louis, Missouri, an industrial installation, located on 15 acres of land, divided by the Des Peres Drainage System into 2 portions of approximately 3 and 12 acres, respectively, complete with buildings, machines, and equipment capable of producing a rated 6,000 tons of steel per month.

(1) Foundry Buildings: The primary foundry building is approximately 1,560 feet long, with an average width of approximately 200 feet, and contains the following bays and work sites:

| DESIGNATION    | SIZE        | CLEARANCE | AREA<br>SQ. FT. | REMARKS                                       |
|----------------|-------------|-----------|-----------------|---|
| Main Bay       | 75' x 1560' | 40'-6"    | 117,000         | Centered by rail spur.                        |
| South Bay      | 75' x 1460' | 34'-0"    | 109,500         | Sand house, core room and heat treating site. |
| Furnace Bay    | 85' x 420'  | 40'-6"    | 35,700          | Open hearth furnace.                          |
| Mold Bay       | 50' x 100'  | 31'-9"    | 5,000           | Drying ovens.                                 |
| Pattern Shop   | 20' x 141'  | 14'-9"    | 4,020           | 2 work levels.                                |
| Machine Shop   | 62' x 141'  | 40'-6"    | 17,600          | 2 work levels.                                |
| Oxygen Shelter | 30' x 60'   | 28'-0"    | 1,800           |   |
| Shot Blast     | 30' x 200'  | 28'       | 6,000           |   |
| Tool Shop      | 20' x 100'  | 10'       | 4,920           | 2 work levels.                                |
| Inspection Bay | 25' x 100'  | 10'       | 7,500           | 3 work levels.                                |
| X-Ray          | 74' x 100'  | 40' & 16' | 9,500           | 2 work levels.                                |
| Chain Testing  | 12' x 140'  | N.A.      | 1,680           | Machine testing.                              |

(2) Foundry Equipment: Major items of equipment consist of:

- (a) Open hearth furnaces, 3 each, 14' x 26' x 9' high, oil fired, capacity 30 N.T. per heat, automatic electrical controls and recorders.
- (b) Core ovens, 12 each, 9' x 14' x 8'6" high, gas fired, automatic electrical controls and recorders.
- (c) Mold drying ovens, 4 each, 9' x 22' x 14' high, gas fired, automatic electrical controls and recorders.
- (d) Annealing furnaces, 23 each, Mahr, 8' x 18' x 7'6" high; 1 each, Mahr, 25' x 30' x 14'6" high; 12 each, surface combustion, 8' x 18' x 7'6" high, all car bottom type, electrical controls and recorders.
- (e) Shot blast machines, 8 each, Parsons Engineering Company, 9' x 22' x 10' high, with dust collector systems.
- (f) Sand slingers, 1 each, motive, and 1 each, stationary, capacity, 2,100 pounds per minute each.
- (g) Sand handling plant, Bartlett & Snow, complete storage, mixing, distributing, and reclaiming mechanism, with dust collector system automatically controlled. Capacity, 100-130 N.T. per hour.
- (h) Pneumatic molding machines, 1 each, 20,000 pounds; 5 each, 6,000 pounds; and 3 each, 1,500 pounds.
- (i) Hydraulic vertical presses, 1 each, 600 ton; 1 each, 500 ton; 1 each 227 ton; and 1,500 ton ram presses.
- (j) X-Ray, industrial-type, 1 each, 250,000 volt; 1 each, 1,000,000 volt; and 1 each, 15,000,000 volt Betatron (largest in Middle West).
- (k) Cranes, traveling, 2 each, 50 ton; 1 each, 30 ton; 3 each, 20 ton; 11 each, 10 ton; and 2 each, 5 ton.
- (l) Cranes, jib, 24 each; cranes, wall bracket, 8 each.

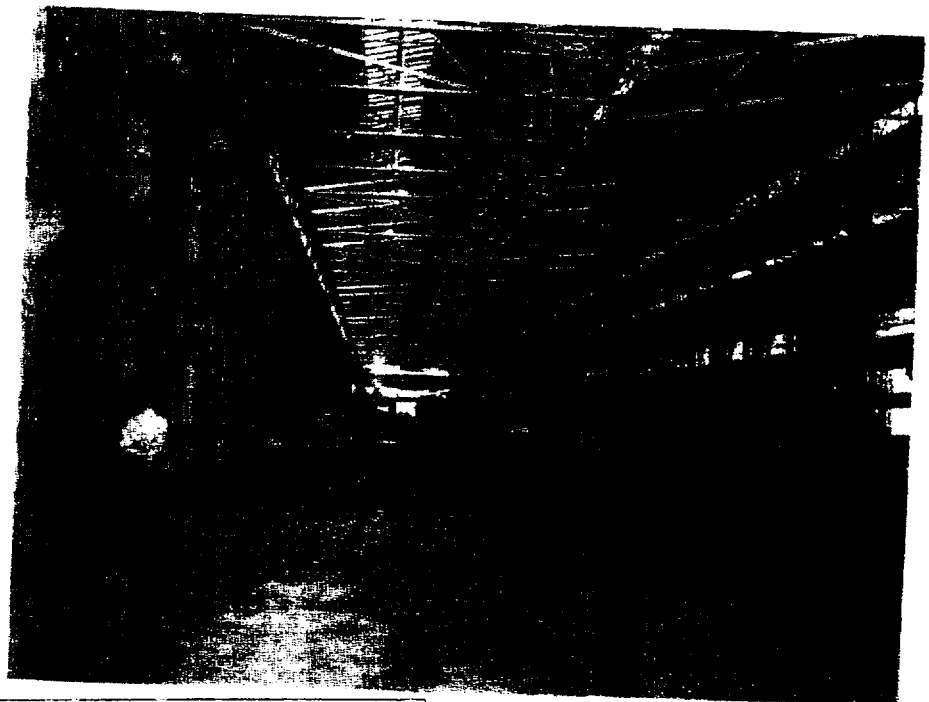
(3) Service and Support Buildings: The following listed structures furnish essential services and support to production operations:

| DESIGNATION                          | APPROX.<br>SIZE | NO. OF<br>FLOORS           | TOTAL<br>SQ. FT. | REMARKS   |
|--------------------------------------|-----------------|----------------------------|------------------|---|
| Office, Dispensary & Locker Building | 50' x 220'      | Basement, plus two stories | 34,000           | Brick walls, wooden floors and roofs, complete medical equipment. |
| Lunch Room                           | 20' x 40'       | 1                          | 836              | Brick walls, concrete floors.                                     |
| Guard Building                       | 33' x 34'       | 2                          | 2,100            | Brick walls, concrete floors.                                     |

# ST. LOUIS ORDNANCE STEEL FOUNDRY

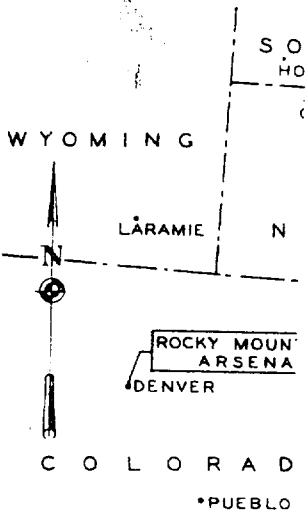


Plant Entrance

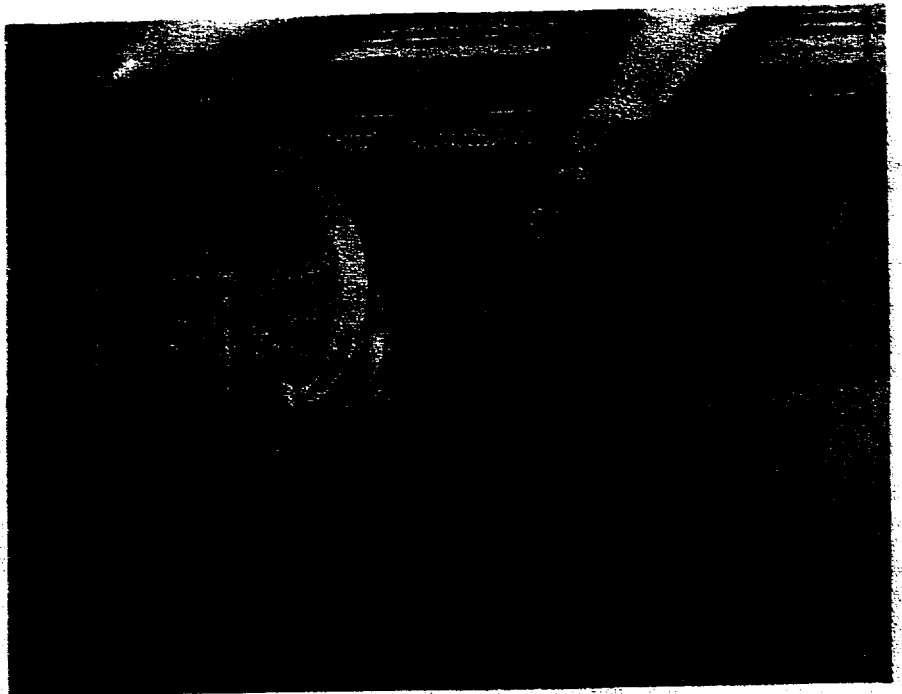
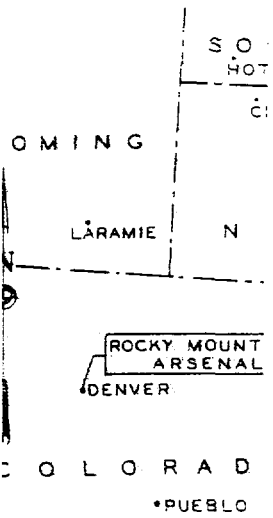
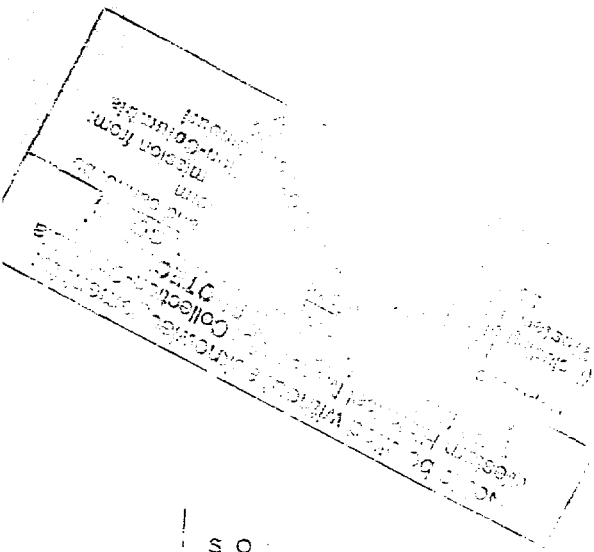


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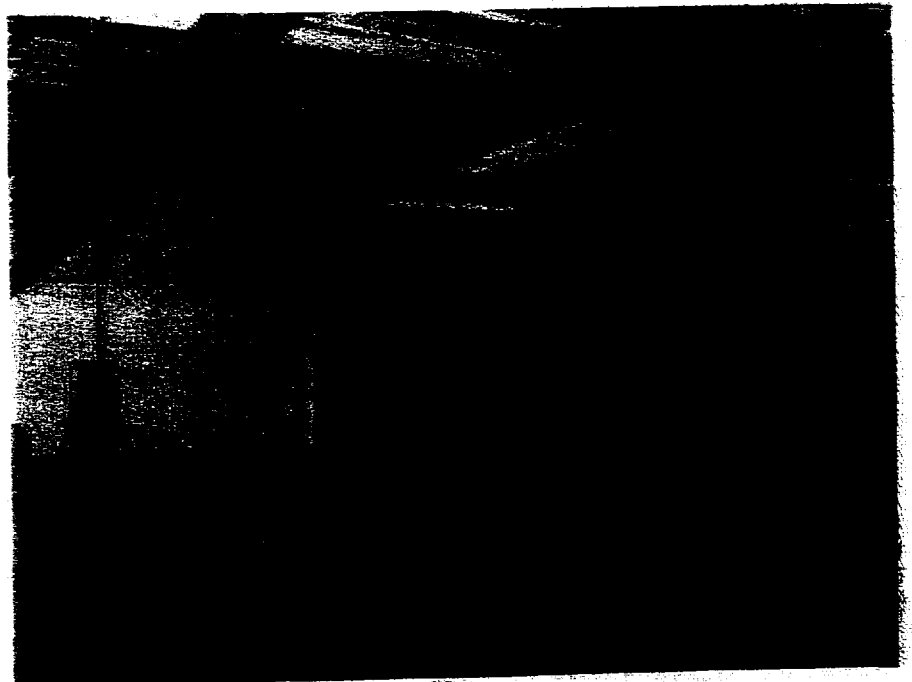
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HISTORICAL ARCHIVES



# ST. LOUIS ORDNANCE PLANT



Metal Fabrication



Draw Press Equipment

INVITATION FOR PROPOSALS  
FOR THE LEASE OF  
U. S. ARMY INDUSTRIAL INSTALLATIONS

SEALED PROPOSALS, in quadruplicate, subject to the conditions contained herein, will be received at the place and until the time stated below, and then publicly opened, for the lease of the facilities listed below.

1. Description of Facilities.

a. ST. LOUIS ORDNANCE PLANT, an industrial installation designed for the manufacture of small arms ammunition and artillery projectiles, located in St. Louis, Missouri, containing the following facilities and lands appurtenant thereto:

(1) Ammunition Manufacturing - 30 and 50 Caliber Group:

(a) Description: The facilities offered for lease include 5 separate production lines, complete with land, buildings, and equipment essential for the fabrication of metal parts, and the loading, assembly, and packaging of complete rounds of small arms ammunition. Each production line has individual offices, locker rooms, rest rooms, a cafeteria, tool and gauge laboratory, tool and supply store, maintenance shop, and extensive receiving and shipping bays with contiguous rail and truck docks.

| LINE NO. | NO. OF BLDGS. | DESIGNATION           | FLOOR SPACE SQUARE FEET | NO. OF FLOORS | REMARKS   |
|----------|---------------|-----------------------|-------------------------|---------------|---|
| 102      | 1             | Primary Manufacturing | 250,000                 | 2             | Production Support Buildings are grouped due to limited individual floor space.                   |
|          | 1             | Cartridge Loading     | 17,000                  | 2             |   |
|          | 1             | Primer Inserting      | 15,000                  | 2             |   |
|          | 6             | Production Support    | 80 - 700                | 1             |   |
| 103      | 1             | Primary Manufacturing | 250,000                 | 2             | Lead Shop contains melting, extrusion, and swaging equipment for production of lead bullet cores. |
|          | 1             | Cartridge Loading     | 16,000                  | 2             |   |
|          | 1             | Primer Inserting      | 15,000                  | 2             |   |
|          | 1             | Lead Shop             | 16,000                  | 1             |   |
|          | 5             | Production Support    | 80 - 700                | 1             |   |
| 104      | 1             | Primary Manufacturing | 344,000                 | 2             | Primary Manufacturing Buildings contain cartridge case and bullet jacket fabrication equipment.   |
|          | 1             | Cartridge Loading     | 19,000                  | 2             |   |
|          | 1             | Primer Inserting      | 17,000                  | 2             |   |
|          | 5             | Production Support    | 80 - 700                | 1             |   |
| 105      | 1             | Primary Manufacturing | 372,000                 | 2             | Kitchen facility provides central food preparation for cafeterias in all lines.                   |
|          | 1             | Cartridge Loading     | 19,000                  | 2             |   |
|          | 1             | Primer Inserting      | 17,000                  | 2             |   |
|          | 1             | Cafeteria Kitchen     | 20,000                  | 1             |   |
|          | 5             | Production Support    | 80 - 700                | 1             |   |
| 205      | 1             | Primary Manufacturing | 422,000                 | 2             | Respective locations of all lines are shown on attached outlease map. (PLATE I)                   |
|          | 1             | Cartridge Loading     | 32,000                  | 2             |   |
|          | 1             | Primer Inserting      | 33,000                  | 2             |   |
|          | 5             | Production Support    | 80 - 700                | 1             |   |

(b) Construction: The primary manufacturing buildings have steel or reinforced concrete frames, brick walls, and concrete floors and roofs. In general, floor loads are rated at 300 to 500 pounds per square foot at ground level. Second floors are concrete, supported by steel columns on 20-foot centers, for a rated 300 pounds per square foot.

(c) Equipment: Production equipment consists of draw and forming presses, pickling tanks, washers, annealing furnaces, trim and cutting machines, punch and inserting presses, weigh and gauge machines, and marking, packaging, and sealing machines. Material flow is integrated by conveyor systems connecting first and second floor operations, as well as lateral work stations. Freight elevators are strategically located for movement of basic material.



| DESIGNATION      | APPROX.<br>SIZE | NO. OF<br>FLOORS              | TOTAL<br>SQ. FT. | REMARKS  |
|------------------|-----------------|-------------------------------|------------------|--|
| Storage Building | 50' x 108'      | 2                             | 11,300           | Brick walls, concrete floors and roof.                                 |
| Laboratory       | 30' x 30'       | Basement, plus<br>two stories | 7,200            | Brick walls, wooden floors and roof, completely equipped.              |
| Pattern Shop     | 62' x 102'      | 2                             | 12,600           | Brick walls, concrete floors and roof, ceiling height 13' and 11'.     |
| Power House      | 60' x 200'      | 1                             | 12,000           | 3 each, 300 H.P. boilers; 10 each, air compressors, 3,100 C.F.M. each. |

Miscellaneous service buildings, such as pump houses, meter houses, scale houses, watchmen's shelters, etc., ranging in size from 150 to 460 square feet.

(4) Location: St. Louis Ordnance Steel Foundry is located in the southwest portion of the City of St. Louis at 6703 Southwest Avenue.

(5) Transportation: The plant is served by the St. Louis-San Francisco (Frisco) Railroad. Hard-surface roads from the plant site connect with arterial highways. The distance to the St. Louis Airport is approximately 15 miles. Mississippi River Docks, a distance of 8 miles, provide for water transportation.

(6) Utilities: Utilities are available through purchase from public vendors.

(7) Labor: Surplus labor market exists in all classes of skilled, semiskilled, and unskilled personnel. The potential labor force within the Greater St. Louis Area is estimated to be in excess of 800,000.

(8) Reactivation: Reactivation of the facility may be accomplished with a minimum expenditure of time and funds, as equipment and buildings are preserved in excellent condition by an industrial surveillance and maintenance program.

(9) Additional Information: Detailed data relative to buildings, production processes, list of equipment, etc., will be furnished commensurate with the level of interest evidenced by the prospective bidder.

(10) Inspection of Property: Prospective bidders are urged to inspect the facilities and to form their own conclusions. Arrangements for such inspection must be made through the Office of the District Engineer, U. S. Army Engineer District, Kansas City, Corps of Engineers, 1800 Federal Office Building, Kansas City 6, Missouri.

(11) Proposals: Sealed proposals for the lease of the facilities included in this paragraph 1b will be received by the District Engineer, U. S. Army Engineer District, Kansas City, Corps of Engineers, 1800 Federal Office Building, Kansas City 6, Missouri, until 21 January 1959, and then publicly opened. Each proposal must be inclosed in a sealed envelope, marked and addressed as follows:

Proposal for the lease of:  
St. Louis Ordnance Steel Foundry, Missouri

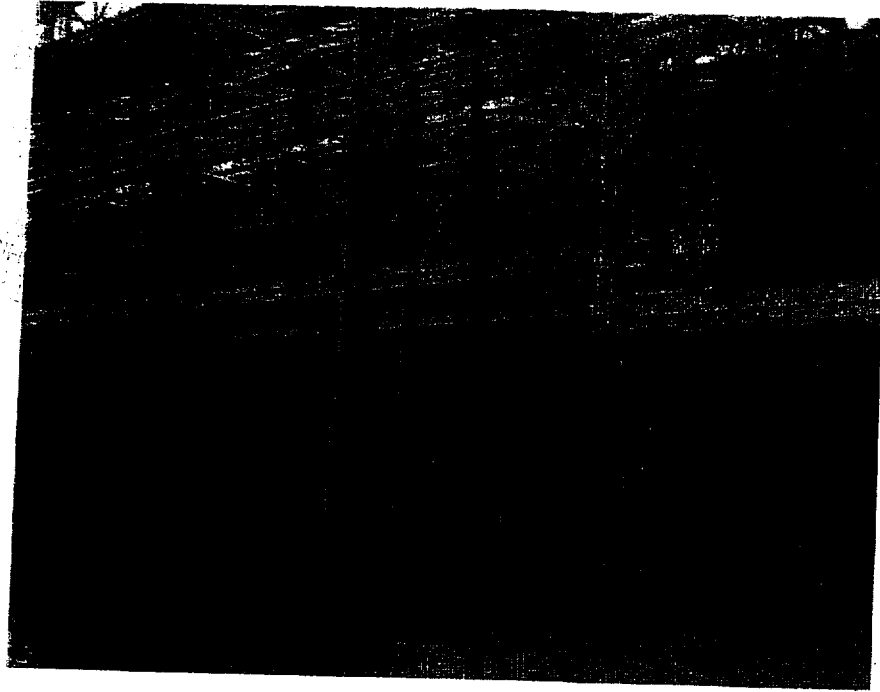
TO: District Engineer  
U. S. Army Engineer District, Kansas City  
Corps of Engineers  
1800 Federal Office Building  
Kansas City 6, Missouri

INVITATION NO. ENG-23-028-59-12  
To Be Opened: 10:00 a. m., c. s. t.  
Date: 21 January 1959

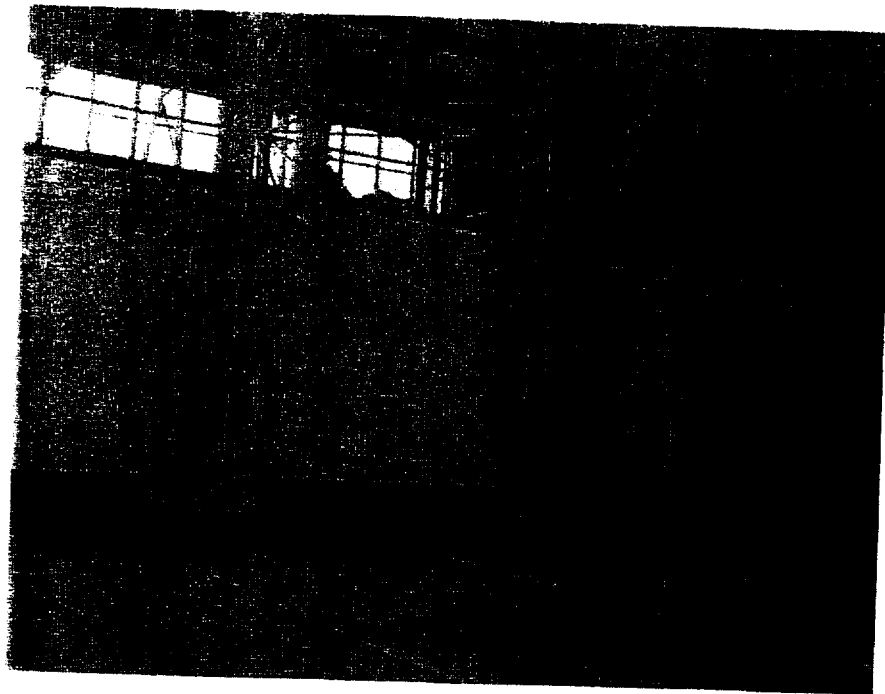
Telephone: BA 1-7000, Ext. 8-319

Proposals will be considered on all or any portion of the facilities listed. The offeror may submit as many alternate proposals as he desires.

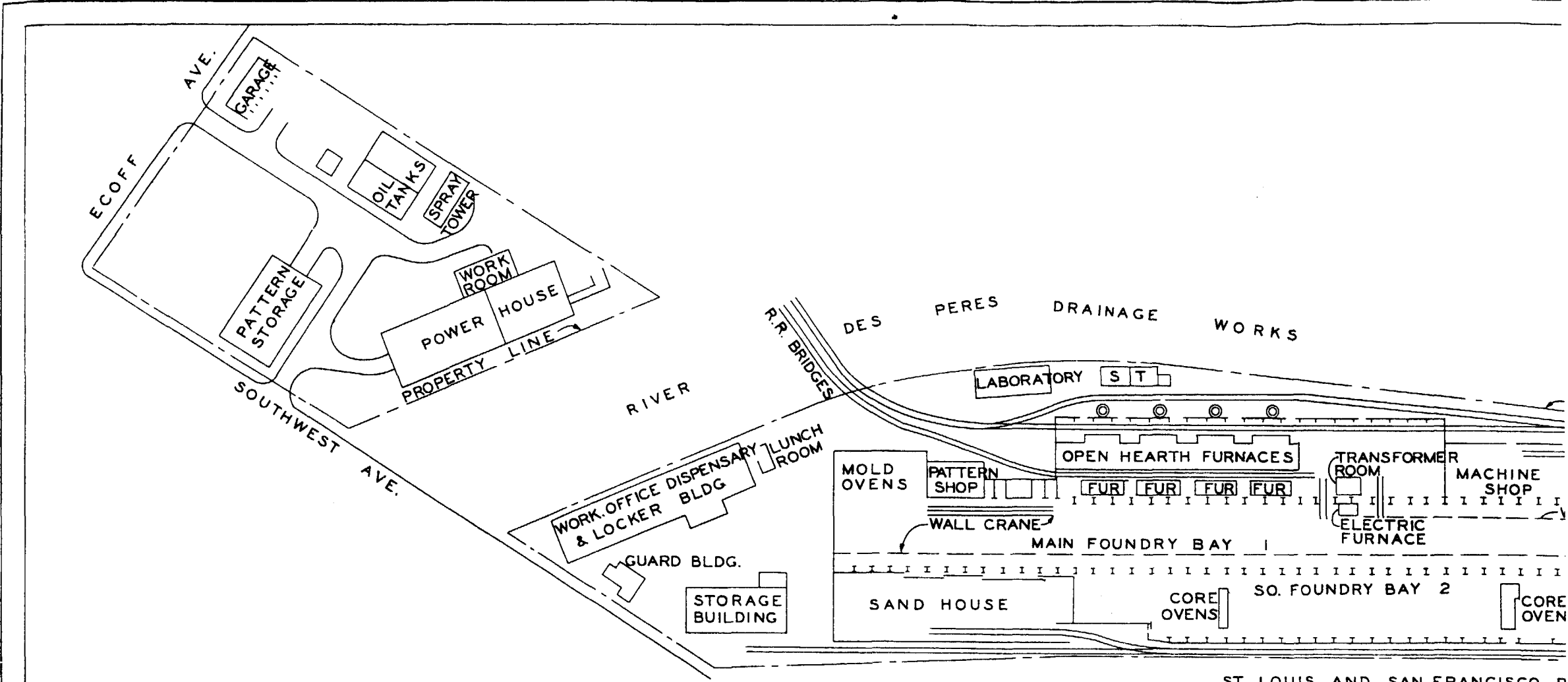
# ST. LOUIS ORDNANCE STEEL FOUNDRY



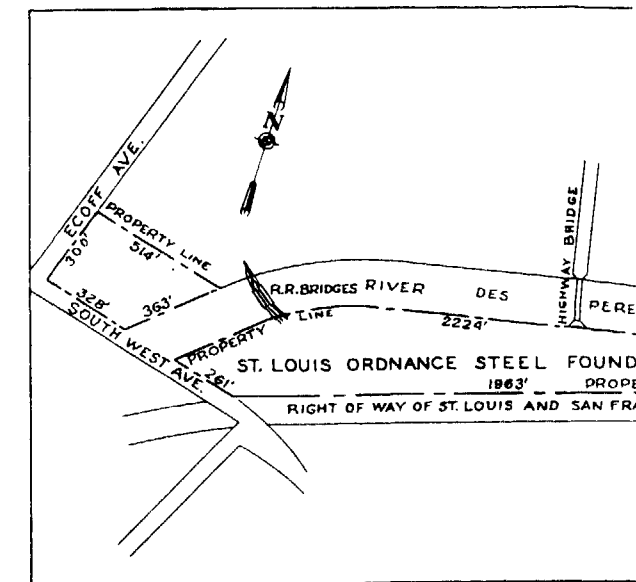
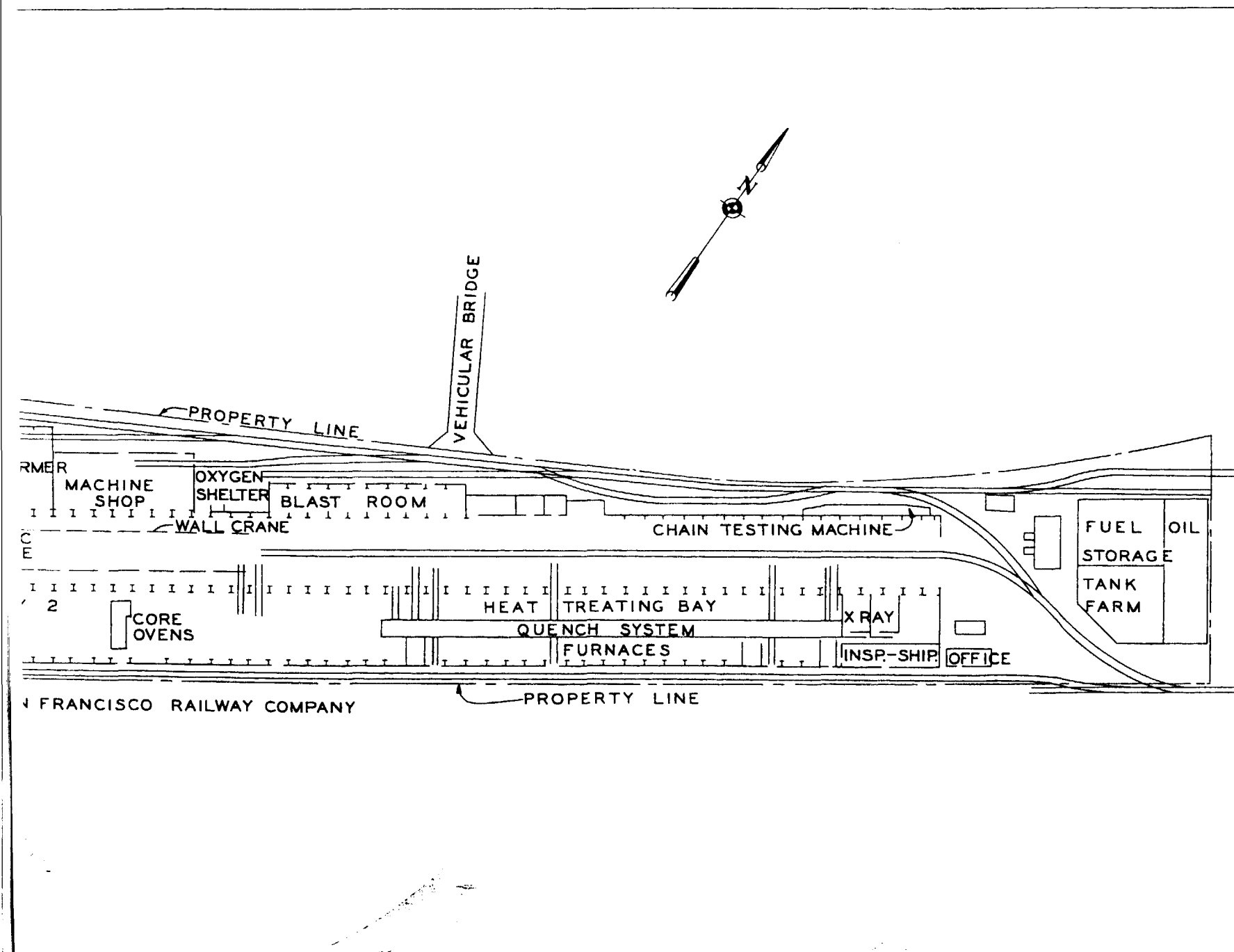
Heat Treating Furnace



Mold Drying Ovens



ST. LOUIS AND SAN FRANCISCO R



SITE PLAN

U. S. ARMY ENGINEER DISTRICT  
KANSAS CITY

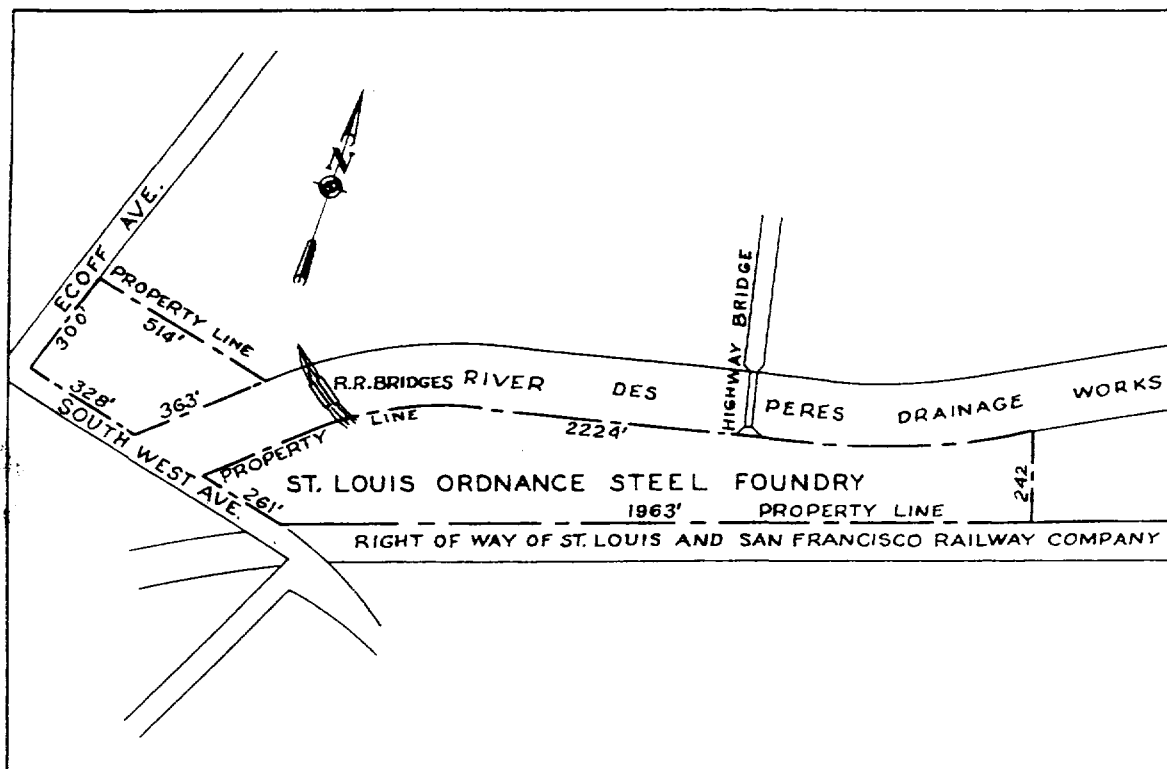
ST. LOUIS ORDNANCE STEEL FOUNDRY

OUT-LEASE MAP

Sheet 1 of 1

DRAWING NUMBER  
15 - 02 - 01

This Map was compiled from Drawing



## SITE PLAN

U. S. ARMY ENGINEER DISTRICT  
KANSAS CITY

ST. LOUIS ORDNANCE STEEL FOUNDRY

ST. LOUIS, MISSOURI

## OUT-LEASE MAPS

Sheet 1 of 1

Not to scale

DRAWING NUMBER  
15 - 02 - 01

This Map was compiled from Drawing PLANCOR 1672

c. SUNFLOWER ORDNANCE WORKS, located 27 miles west of Kansas City, Missouri, is an integrated chemical processing works designed for the manufacture of propellant-type explosives, comprising the following facilities and lands appurtenant thereto:

(1) Manufacture of Nitric Acid:

(a) Description: The facilities offered for lease include 2 separate production areas, complete with land, buildings, and equipment essential for the manufacture of nitric acid.

| NO. OF<br>BLDGS. | AREA            | DESIGNATION                | FLOOR SPACE<br>SQUARE FEET | REMARKS   |
|------------------|-----------------|----------------------------|----------------------------|---|
| 12               | North Acid Area | Manufacture of Nitric Acid | 52,183                     | Each area served by rail spur & unloading stations. |
| 10               | South Acid Area | Manufacture of Nitric Acid | 34,934                     |   |

(b) Construction: The majority of the buildings are frame constructed, with wooden or asbestos siding, concrete floors, and asphalt roofs.

(c) Equipment: A resume of equipment, by areas, is as follows:

North Acid Area - The buildings contain 5 ammonia oxidation units, total capacity 238 tons per day; 5 steam compressors (Sullivan), capacity 5,300 CFM each; 10 nitric acid concentrator units (Pauling), total capacity 225 tons per day; and 6 sulfuric acid concentrator units (Chemico), total capacity 972 tons per day. Storage facilities consist of 16 ammonia tanks, total capacity 378,000 gallons, and 26 acid tanks, total capacity 1,685,000 gallons.

South Acid Area - The buildings contain 2 ammonia oxidation units, total capacity 99 tons per day; 2 PHE compressors (Ingersoll Rand), capacity 3,380 CFM each; 3 XRD compressors (Ingersoll Rand), capacity 1,915 CFM each; 5 nitric acid concentrator units (Pauling), total capacity 117 tons per day; and 2 sulfuric acid concentrator units (Chemico), total capacity 324 tons per day. Storage facilities consist of 5 ammonia tanks, total capacity 176,000 gallons, and 15 acid tanks, total capacity approximately 1,000,000 gallons.

(2) Rectify Ether and Alcohol:

(a) Description: Facilities offered for lease include land, buildings, and equipment essential for rectifying ether and alcohol.

| NO. OF<br>BLDGS. | AREA    | DESIGNATION     | FLOOR SPACE<br>SQUARE FEET | REMARKS                |
|------------------|---------|-----------------|----------------------------|------------------------|
| 3                | Solvent | Ether & Alcohol | 15,589                     | Rail spur serves area. |

(b) Construction: Buildings are frame constructed, with asbestos siding, concrete floors, and asphalt roofs.

(c) Equipment: Production equipment consists of pots, vaporizers, caustic scrubbers, coolers, columns, vacuum breakers, dephlegmators, and special purpose pumps. Storage facilities consist of 43 tanks, with a total capacity of 2,480,000 gallons.

(d) Potential Use: Conversion of existing facilities for distillation of alcohol and the manufacture of resins or commercial solvents is believed to be economically feasible.

(3) Manufacture of Nitroglycerin:

(a) Description: Facilities offered for lease include land, buildings, and equipment essential for the manufacturing of nitroglycerin.

| NO. OF<br>BLDGS. | AREA          | DESIGNATION                  | FLOOR SPACE<br>SQUARE FEET | REMARKS                |
|------------------|---------------|------------------------------|----------------------------|------------------------|
| 10               | Nitroglycerin | Manufacture of Nitroglycerin | 7,165                      | Rail spur serves area. |